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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/019,743	12/28/2001	Yasuhiro Sasaki	56778 (70820)	7360
21874 75	90 06/30/2004		EXAMINER	
EDWARDS & ANGELL, LLP			DESAI, ANAND U	
P.O. BOX 55874 BOSTON, MA 02205			ART UNIT	PAPER NUMBER
			1653	
			DATE MAILED: 06/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A :1:				
	Application No.	Applicant(s)				
0.00	10/019,743	SASAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anand U Desai, Ph.D.	1653				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep of 18 NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 L	December 2001.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	☐ This action is <b>FINAL</b> . 2b)☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) <u>1-18</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-18</u> is/are rejected. 7) ⊠ Claim(s) <u>2,3,15 and 18</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/o	awn from consideration.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E	examiner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:     1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list.	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>December 28, 2001</u>.</li> </ul>	Paper No(s)/Mail D:  5) Notice of Informal F  6) Other:	ate Patent Application (PTO-152)				

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#### **DETAILED ACTION**

#### Priority

Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10/019,743, filed on December 28, 2001. The priority date is June 30, 1999.

# Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on December 28, 2001 is being considered by the examiner.

## **Specification**

- 3. The disclosure is objected to because of the following informalities:
- 4. There are typographical errors when representing D-amino acids, for example on page 5, line 23, and 24, and page 8, lines 18, and 19, the words, "DLeu, DAla, DTrp, DSer(tBu), D2Nal, and Dhis(ImBzl)" are missing hyphens between the D-amino acids.
- 5. The use of the abbreviation, "etc." throughout the specification is unclear or misplaced, for example on page 17, lines 13, and 20 and page 19, line 18 what is the etc referring to, a by-product?

Appropriate correction is required.

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### Claim Objections

6. Claims 2, 3, 15, and 18 are objected to because of the following informalities: There is a typographical error when representing D-amino acids. The words, "DLeu, DAla, DTrp, DSer(tBu), D2Nal, and Dhis(ImBzl)" are missing hyphens between the D-amino acids.

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 1-15, 16, and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 1, what is meant by the phrase, "a step for treatment"? Is the LH-RH derivative solution used in an undisclosed step, and then applied to the methacrylic synthetic adsorption resin, and an aromatic synthetic adsorption resin? In claim 16, what is meant by "total related substances"? Claims 2-15, and 18 are rejected for depending on a rejected claim.

## Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

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international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 10. Claims 16, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Hutchinson U.S. Patent 5,889,110 (Effective filing date=June 7, 1995). Hutchinson discloses a purified leuprorelin or leuprorelin acetate preparation (see U.S. Patent '110, claims 1, 4, and 45, current application, claims 16, and 17).
- Claims 16, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Hatanaka et al. US Patent 6,211,333 B1 (Effective 102(e) date=December 18, 1998). Hatanaka et al. disclose a process of preparing a LH-RH derivative. The peptide disclosed is 5-oxo-Pro-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NHC<sub>2</sub>H<sub>5</sub>. Leuprorelin was purified from a liquid solution, and analyzed by HPLC to be 99.8% pure, so the purified leuprorelin has impurities of 0.2% (see U.S. Patent '333, example 4, current application, claims 16, and 17).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anand U Desai, Ph.D. whose telephone number is (571) 272-0947. The examiner can normally be reached on Monday - Friday 9:00 a.m. - 5:30 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (517) 272-0951. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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June 23, 2004

KAREN COCHRANE CARLSON, PH.D PRIMARY EXAMINER

Law Cahane Carkor Pro